



TITLE:

LABORATORIES OF VISITING PROFESSORS:  
SOLID STATE CHEMISTRY-Structure Analysis,  
FUNDAMENTAL MATERIAL PROPERTIES-  
Composite Material Properties, SYNTHETIC  
ORGANIC CHEMISTRY-Synthetic Theory

AUTHOR(S):

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## LABORATORIES OF VISITING PROFESSORS

### SOLID STATE CHEMISTRY —Structure Analysis—



Vis Prof  
TERAUCHI, Hikaru  
(D Sc)

**Professor**

TERAUCHI, Hikaru  
Department of Physics, Faculty of Science, Kwansei Gakuin University  
(1-155 Uegahara-Ichiban-cho, Nishinomiya 662)

**Lectures at ICR**

Crystal Symmetry and Physical Properties  
X-ray Diffraction  
Some Thermal Effects in Solids  
Structural Phase Transitions  
Artificial Structures



Vis Assoc Prof  
TAKAGI Hidenori  
(D Eng)

**Associate Professor**

TAKAGI, Hidenori  
Institute for Solid State Physics, University of Tokyo (Roppongi 7-22-1,  
Minato-ku, Tokyo 106)

**Lectures at ICR**

Introduction to Solid State Physics: I, II and III  
Transport Properties I, II and III  
Disorder Induced Metal-Insulator Transition I, II and III

## FUNDAMENTAL MATERIAL PROPERTIES —Composite Material—



Vis Prof  
KAKUGO  
(D Eng)

### Professor

KAKUGO, Masahiro (Dr. Eng.)  
Director and Research Director of Petrochemicals Research Lab. and  
Plastic Technical Center of Sumitomo Chemical Co.

### Lectures at ICR

History, Trend and Future of Polymer Industry  
Recent Progress of Co-ordination Polymerization Catalysts  
Metallocene Catalysts  
Recent Progress of Polyolefin Production Process  
Recent Progress of Plastic Processing Technology  
Recent Progress of Precision Polymerization  
Recent Progress of Polymer Alloy



Vis Assoc Prof  
KAWASHIMA, Takayuki  
(D Sc)

### Associate Professor

KAWASHIMA, Takayuki (D Sc)  
Department of Chemistry, Graduate School of Science, The University of  
Tokyo (7-3-1 Hongo, Bunkyo-ku, Tokyo 113)

### Lectures at ICR

The Wittig Reaction, Peterson Reaction, and the Chemistry of the  
Corresponding Reactive Intermediates

## SYNTHETIC ORGANIC CHEMISTRY —Synthetic Theory—



Vis Prof  
MURAI, Akio  
(D Sc)

### Professor

MURAI, Akio  
Faculty of Sciences, Hokkaido University (8 West, Kitajuku, Kita-ku,  
Sapporo 060)

### Lecture at ICR

Synthesis of Marine Cyclic Polyethers  
Synthetic Studies on Marine Toxins



Vis Assoc Prof  
INENAGA, Junji  
(D Eng)

### Associate Professor

INENAGA, Junji  
Institute for Fundamental Research of Organic Chemistry, Kyushu  
University (6-10-1 Hakozaki, Higashi-ku, Fukuoka, 812-18)

### Lecture at ICR

Organic Reactions Using Rare Earth Metal: Recent Development